

(19)日本国特許庁 (J P)

(12) 公開実用新案公報 (U)

(11)実用新案出願公開番号

実開平5-78210

(43)公開日 平成5年(1993)10月26日

(51)Int.Cl. ⁵	識別記号	庁内整理番号	F I	技術表示箇所
A 6 1 C 19/00				
A 6 1 B 19/00		Z		
A 6 1 L 2/26		Z 8718-4C		
		7108-4C	A 6 1 C 19/ 00	A

審査請求 未請求 請求項の数 1 (全 3 頁)

(21)出願番号 実願平4-27124

(22)出願日 平成4年(1992)3月31日

(71)出願人 592091563

大石 昭二

静岡県静岡市大岩617番地の1

(72)考案者 大石 昭二

静岡県静岡市大岩617番地の1

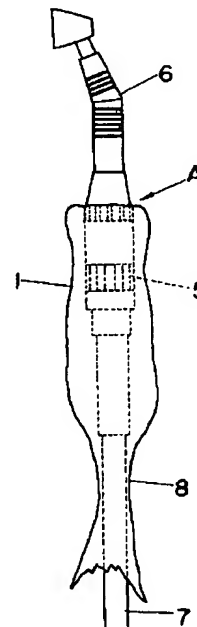
(74)代理人 弁理士 瀬川 幹夫

(54)【考案の名称】 院内感染防止用使い捨て器具カバー

(57)【要約】

【目的】 本考案は、治療器具の完全消毒できない把持部などを器具カバーにより汚染環境から隔離して治療を行い、治療が済めば汚染された器具カバーを外して捨て、新しい器具カバーに代えて治療を行うことにより医院での病気感染を防止する。

【構成】 薄い合成樹脂シートにより製袋して、底部に小孔をあけた器具カバーを完全消毒して置き、この器具カバー内へ治療器具の消毒器で消毒できない把持部などを收容し、治療部はシール作用をする前記小孔から露出させて、前記把持部などを汚染環境から隔離して治療を行い、治療後は器具カバーを外して廃棄する。



【実用新案登録請求の範囲】

【請求項1】 薄い合成樹脂シートにより製袋して、底部に小孔をあけた器具カバーを完全消毒して置き、この器具カバー内へ治療用器具の消毒器で消毒できない把持部などを収容し、治療部はシール作用をする前記小孔より露出させて、前記把持部などを汚染環境から隔離して治療を行い、治療後は器具カバーを外して廃棄することを特徴とした院内感染防止用使い捨て器具カバー。

【図面の簡単な説明】

【図1】 本考案に係る院内感染防止用使い捨て器具カバーの使用の一例を示す正面図である。

【図2】 同上の使用の他の例を示す正面図である。

【図3】 同上の使用の更に他の例を示す正面図である。

【図4】 同上の使用の他の例を示す正面図である。

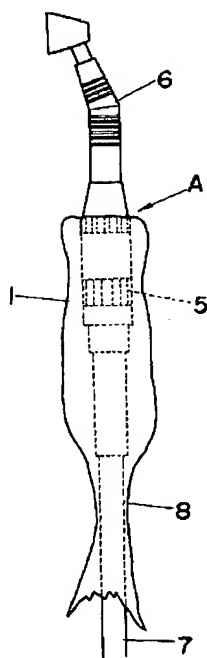
【図5】 器具カバーの一例を示す正面図である。

【図6】 同上の他の例を示す正面図である。

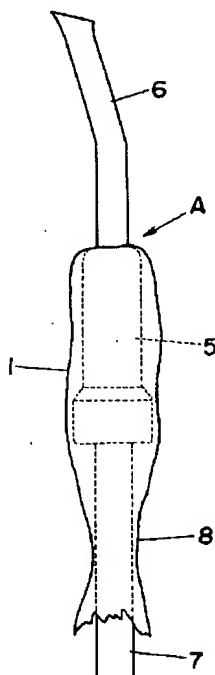
【符号の説明】

- 1 器具カバー
- 2 底
- 3 小孔
- A 治療用器具
- 5 器具の把持部
- 6 器具の治療部

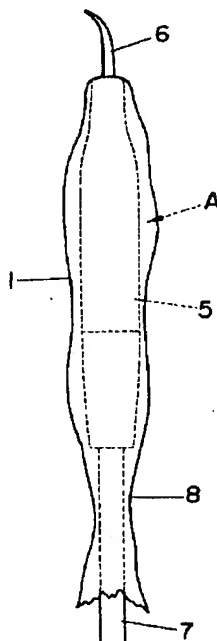
【図1】



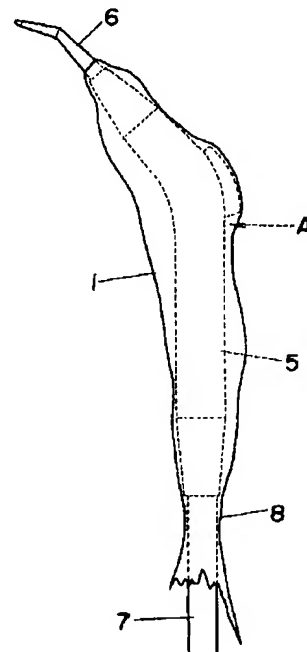
【図2】



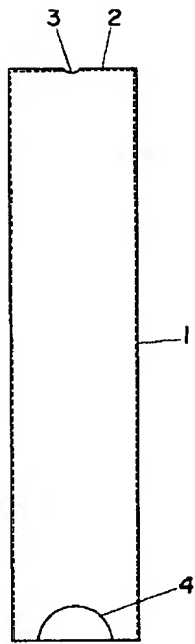
【図3】



【図4】



【図5】



【図6】



【考案の詳細な説明】

【0001】

【産業上の利用分野】

本考案は、治療用器具の完全消毒できない把持部などを器具カバーにより汚染環境から隔離して治療を行い、治療が済めば汚染された器具カバーを外して捨て、新し器具カバーに代えて次の治療を行うことにより、医院での病気感染を防止する器具カバーに関する。

【0002】

【従来の技術】

従来、歯科治療において歯科医師や歯科助手が使用する治療用器具の把持部などは、接続部材がつながれていて、中には各種の機器が装備されており、又、把持部が耐熱性や耐薬品性に乏しい材料で形成されてものもあるから、オートクレーブなどの消毒器によって完全な消毒をすることができない。

【0003】

従って、治療用器具の把持部などは一人の患者の治療が終われば、消毒薬を含浸させたガーゼなどにより拭いて消毒しているが、このような消毒では細菌やウイルスが生存していて、次に治療する患者へと転移することがあるため、伝染性が強くて感染を予防するしか対策がない現代の難病エイズやB型、C型肝炎などに医院において感染するという重大な問題点がある。

【0004】

【考案が解決しようとする課題】

本考案が解決しようとする課題は、治療用器具の把持部などが汚染環境に置かれるため、細菌やウイルスにより汚染されて消毒が不完全であるとエイズや肝炎などの恐ろしい病気に院内感染する危険性が高い点である。

【0005】

【問題点を解決するための手段】

本考案に係る院内感染防止用使い捨て器具カバーは、薄い合成樹脂シートにより製袋して、底部に小孔をあけた器具カバーを完全消毒して置き、この器具カバー内へ治療用器具の消毒器で消毒できない把持部などを収容し、治療部はシール

作用をする前記小孔より露出させて、前記把持部などを汚染環境から隔離して治療を行い、治療後は器具カバーを外して廃棄する構成により前記した課題の解決を行うものである。

【0006】

【作用】

前記した構成の院内感染防止用使い捨て器具カバーは、材料費が安くて、細菌やウイルスの完全な遮断ができる薄い合成樹脂シートにより、接続部材がつながっていて、中には各種の機器を内蔵し、把持部が耐熱性や耐薬品性に乏しい材料で形成されるものもあるため、オートクレーブなどの消毒器によって完全消毒することができない歯科治療用器具の把持部などが収容される袋を形成し、この袋の底に小孔をあけて器具カバーを製造する。

【0007】

そしてこの器具カバーは、ガンマ線消毒器などにより完全に消毒した後、所要数を密封包装して保管して置き、歯科医師や歯科助手が治療用器具により治療を行うとき、前記したカバーの1枚を取り出して、その中へ治療部を取り外した把持部を収容して、底の小孔から前記把持部へ治療部を装着すると、把持部は外側をカバーに覆われると共に、治療部を通した小孔が治療部に密着してこれとの間を気密的に封鎖するシール作用を行うため、治療の際に器具の把持部が細菌やウイルスによる汚染環境に置かれても、器具カバーが細菌やウイルスを遮断して把持部へ付着させないため、把持部の細菌やウイルスによる汚染は起こらない。

【0008】

従って、治療が済んだら治療部を把持部から外してオートクレーブなどの消毒器により完全に消毒し、器具カバーは把持部より外して捨て、消毒済みの新しいものに交換して、底の小孔から完全消毒済みの治療部を把持部へ取り付けて次の治療を行うようにすれば、治療用器具を介して細菌やウイルスの転移が起こらないため、伝染性が強くて感染を予防するしか対策がないエイズやB型、C型肝炎などの現代の難病に医院において感染発病するようなことが完全に防止されるものである。

【0009】

なお、治療器具に対する器具カバーの取り付けは、必ずしも治療具を離脱した状態において行い、器具カバーの取り付け後に治療具を取り付ける必要はなく、治療具がその先端よりも基部が太くなるテーパ状のものであれば、治療部を把持部へ取り付け置いて、治療部の先端を小孔に合わせて把持部を器具カバーへ挿入すれば、治療部は小孔を拡大してカバーより露出し、把持部をカバー内へ収まらせるもので、この際も小孔は治療部に密着してこれとの間を気密的に封鎖するシール作用を行うため、この場合も把持部を汚染環境から隔離する機能が前記同様に行われるものである。

【0010】

【実施例】

以下に本考案に係る院内感染防止用使い捨て器具カバーの実施例を図面に基いて説明する。

【0011】

図1は本考案に係る院内感染防止用使い捨て器具カバーの使用の一例を示す正面図。図2は同上の使用の他の例を示す正面図。図3は同上の使用の更に他の例を示す正面図。図4は同上の使用の他の例を示す正面図。図5は器具カバーの一例を示す正面図。図6は同上の他の例を示す正面図である。

【0012】

図5、図6において1は器具カバーで、材料費が安くて、細菌やウイルスの完全な遮断ができ、装着による違和感がなくて、人体に無害であるポリエチレン、ビニル、その他の薄い合成樹脂シートにより、後記する各種の歯科治療器具の把持部が収容される大きさに製袋し、その底2を図5に示すような平底か、図6に示す山型底に形成して、底2の中央部には治療用器具の治療部を露出させる小孔3を設け、開口側は図5に示すように一方に切り込み4を設けるか、図6に示すように一方を短くして口を開き易くするようにしてある。そしてこの器具カバーは、公知のガンマー線消毒器などにより完全に消毒して無菌状態とした後、所要数ずつを密封包装して細菌などで汚染されないように保管して置く。

【0013】

図1～図4においてAは多種類の歯科治療用器具の四例を示すもので、いずれ

も歯科医師や歯科助手が手に持つ把持部 5 と、この把持部 5 へ取り付けて治療を行う治療部 6 とにより構成され、前記した把持部 5 にはこれに内蔵した各種の機器と動力源や駆動部（いずれも図面省略）を接続する接続部材 7 がつながられていて、しかも把持部 5 は耐熱性や耐薬品性に乏しい材料で形成されるものがあるから、この把持部 5 はこれに着脱できる治療部 6 のようにオートクレーブなどによって完全な消毒をすることができない。

【0014】

そこでこの把持部 5 は、その形状に応じて図 5 又は図 6 のような器具カバー 1 を選択し、図 1 及び図 2 のように治療部 6 の基部よりも先端側が大きい場合は、治療部 6 を取り外して置いて、器具カバー 1 内へ把持部 5 を挿入し、その先端が器具カバー 1 の底 2 へ当たったときに止めて、器具カバー 1 の小孔 3 から治療部 6 を挿し入れて把持部 5 への取り付けを行うと、小孔 3 が治療部 6 により拡大されても、これと密着して治療部 6 との間を気密的に封鎖するシール作用を確実に行うため、把持部 5 は器具カバー 1 により汚染環境から完全に隔離されるから、この状態において治療部 6 による治療を行い、治療が済んだ後、治療部 6 を外してオートクレーブなどの消毒器により完全消毒すると共に、器具カバー 1 を把持部 5 から取り外して捨て、次の治療には消毒済みの器具カバー 1 と治療部 6 とを使用した結果、把持部 5 を消毒しなくても細菌やウイルスによる汚染が認められなかった。

【0015】

又、治療用器具 5 は、その治療部 6 が図 3、図 4 に示すように先端よりも基部側が次第に太くなるテーパ状のものがあるから、このような治療用器具 A においては、前記実施例のように治療部 6 を取り外して置いて把持部 5 を器具カバー 1 へ収容することなく、治療部 6 を取り付けたままで器具カバー 1 へ把持部 5 を収容して、カバー 1 の底 2 の小孔 3 を拡大させながら治療部 6 を器具カバー 1 から突出させる方法を採用することができるもので、この場合も小孔 3 は治療部 6 に密着して、これと間のシール作用を確実に行うため、この場合も把持部 5 を汚染環境から隔離する器具カバー 1 の機能が完全に果たされた。

【0016】

なお、器具カバー1は把持部5の収容を容易にするため、把持部5よりも大き目に形成するから、把持部5を収容したときこれとの間に緩みを生じてずれ動く治療用器具Aが使いにくいので、器具カバー1を把持部5の後側に余剰部ができるように形成して置き、器具カバー1へ把持部5を収容した後に前記した余剰部分を引っ張ると、材料シートの延伸により把持部5の後側に絞り部8が形成されて、器具カバー1を把持部5へ簡単に止め付けるため、器具カバー1がずれ動くことがなくなった。

【0017】

【考案の効果】

前述の通り本考案に係る院内感染防止用使い捨て器具カバーは、治療用器具の完全消毒できない把持部などをカバーにより細菌、ウイルスの汚染環境から隔離して治療を行い、治療を終われば汚染されたカバーを外して捨て、次の治療は消毒済みの新しいカバーを使って行えば、器具の把持部などが細菌やウイルスにより汚染されないから、これに原因する病気の院内感染が完全に防止されて、非常に伝染性が強く感染を予防する以外に対策がない難病エイズやB型、C型肝炎が問題になっている現今でも安心して治療を行うことができ、しかも、治療用器具を手間を掛けて消毒する必要もなくなるという格別な効果を奏するものである。

*** NOTICES ***

JPO and NCIPF are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Utility model registration claim]

[Claim 1] instrument covering manufactured bags by the thin synthetic resin sheet , and opened a stoma to a pars basilaris ossis occipitalis -- full disinfection -- carry out -- place -- the inside of this instrument covering -- a therapy -- an appliance -- disposable instrument covering for hospital infection prevention which characterized by to hold the grasping section which cannot disinfect with the sterilizer of an implement , to expose the therapy section from said stoma which carries out a seal operation , to isolate said grasping section etc. from a contamination environment , to treat , and for after a therapy to remove and discard instrument covering .

[Translation done.]

DETAILED DESCRIPTION

[Detailed explanation of a design]

[0001]

[Industrial Application]

Sick infection in a hospital is related to instrument covering prevent by this design's treating by isolating the grasping section which cannot carry out full disinfection of the instrument for a therapy from a contamination environment with instrument covering, removing, throwing away and carrying out new [of the instrument covering polluted when the therapy ended], replacing with to instrument covering, and carrying out the next therapy.

[0002]

[Description of the Prior Art]

the therapy which dentist and a dental assistant use in an odontotherapy conventionally -- an appliance -- the connection member is connected, inside is equipped with various kinds of devices, and since the grasping section is formed in thermal resistance or chemical resistance with a scarce ingredient and a thing also has it, the grasping section of an implement etc. cannot carry out perfect disinfection with sterilizers, such as an autoclave.

[0003]

Therefore, although the grasping section of the instrument for a therapy etc. will wipe with the gauze into which the disinfectant was infiltrated and will be disinfected if one patient's therapy finishes. In such disinfection, bacteria and a virus survive, and since it may transfer to the patient who treats next, there is a serious trouble of being infected with the intractable disease acquired immunodeficiency syndrome of the present age in which infectivity is strong and a cure only has preventing infection, B mold, hepatitis C, etc. in a hospital.

[0004]

[Problem(s) to be Solved by the Device]

the technical problem which this design tends to solve -- a therapy -- an appliance -- since the grasping section of an implement etc. is put on a contamination environment, it is polluted by bacteria and the virus and the fearful dangers of carrying out a hospital infection sick, such as an acquired immunodeficiency syndrome and hepatitis, are high points as disinfection is imperfect.

[0005]

[Means for Solving the Problem]

Disposable instrument covering for hospital infection prevention concerning this design Manufacture bags with a thin synthetic-resin sheet, and carry out full disinfection of the instrument covering which opened the stoma in the pars basilaris ossis occipitalis, and it is placed. The grasping section which cannot be disinfected with the sterilizer of an implement is held. the inside of this instrument covering -- a therapy -- an appliance -- The therapy section is exposed from said stoma which carries out a seal operation, it treats by isolating said grasping section etc. from a contamination environment, and after a therapy solves the technical problem described above by the configuration which removes and discards instrument covering.

[0006]

[Function]

Disposable instrument covering for hospital infection prevention of a configuration of having described above The thing which the connection member is connected and builds various kinds of devices in inside with the thin synthetic-resin sheet which whose cost of materials is cheap and can perform perfect cutoff of bacteria or a virus and by which the grasping section is formed in thermal resistance or chemical resistance with a scarce ingredient A certain sake, the odontotherapy which cannot carry out full disinfection with sterilizers, such as an autoclave, -- an appliance -- the bag with which the grasping section of an implement etc. is held is formed, a stoma is opened in the bottom of this bag, and instrument covering is manufactured.

[0007]

and the required number after disinfecting this instrument covering completely with a gamma ray sterilizer etc. -- a seal package -- carrying out -- keeping it -- placing -- dentist and a dental assistant -- a therapy -- an appliance, when treating with an implement If one of the above mentioned coverings is taken out, the grasping section which removed the therapy section into it is held and said grasping section is equipped with the therapy section from the stoma of a bottom, while the grasping section will be covered with covering in an outside In order to perform the seal operation whose stoma which let the therapy section pass sticks to the therapy section, and blocks between this in airtight, Even if the grasping section of an instrument is put on the contamination environment by

bacteria or the virus in the case of a therapy, in order for instrument covering to intercept bacteria and a virus and not to make it adhere to the grasping section, the contamination by the bacteria or virus of the grasping section does not take place.

[0008]

Therefore, if a therapy ends, remove the therapy section from the grasping section and disinfect completely with sterilizers, such as an autoclave, and will remove and throw away instrument covering from the grasping section, and it will exchange for a new thing [finishing / disinfection]. if the therapy section [finishing / full disinfection] is attached in the grasping section from the stoma of a bottom and it is made to perform the next therapy -- a therapy -- an appliance, since transition of bacteria or a virus does not take place through an implement What carries out infection pathopoiesis in a hospital at the intractable disease of the present age, such as an acquired immunodeficiency syndrome to which infectivity is strong and a cure only has preventing infection, and B mold, hepatitis C, is prevented completely.

[0009]

In addition, installation of instrument covering to a therapy instrument It is not necessary to carry out in the condition of having seceded from the therapy implement, and to necessarily attach a therapy implement after installation of instrument covering, and rather than the tip, if a therapy implement is the thing of the shape of a taper to which a base becomes thick It is the thing in which the therapy section will expand a stoma, and will expose it to from covering, and the grasping section will be made settled into covering if the therapy section is attached and put on the grasping section, the tip of the therapy section is doubled with a stoma and the grasping section is inserted in instrument covering. In order to perform the seal operation which sticks a stoma to the therapy section and blocks between this in airtight also in this case, the function to isolate the grasping section from a contamination environment also in this case is said thing performed similarly.

[0010]

[Example]

The example of disposable instrument covering for hospital infection prevention concerning this design is explained based on a drawing below.

[0011]

Drawing 1 is the front view showing an example of use of disposable instrument covering for hospital infection prevention concerning this design. Drawing 2 is the front view showing other examples of use same as the above. Drawing 3 is the front view showing the example of further others of use same as the above. Drawing 4 is the front view showing other examples of use same as the above. Drawing 5 is the front view showing an example of instrument covering. Drawing 6 is the front view showing other examples same as the above.

[0012]

In drawing 5 and drawing 6 , 1 is instrument covering, the cost of materials is cheap, perfect cutoff of bacteria or a virus can be performed and there is no sense of incongruity by wearing. With polyethylene harmless to the body, vinyl, and other thin synthetic-resin sheets Manufacture bags in the magnitude in which the grasping section of various kinds of odontotherapy instruments which carry out a postscript is held, and it forms in a flat bottom as shows the bottom 2 to drawing 5 , and the crest mold bottom shown in drawing

6 . It has been made to make opening easy to shorten and to open, as it is shown in drawing 6 whether it cuts deeply as the stoma 3 to which the therapy section of the instrument for a therapy is exposed is formed in the center section of a bottom 2 and an opening side is shown in drawing 5 , and 4 is prepared. And after disinfecting completely with a well-known gamma ray sterilizer etc. and considering as an aseptic condition, it is kept and this instrument covering is placed so that the seal package of every [a required number] may be carried out and it may not be polluted bacteria etc.

[0013]

It is what shows four examples of an implement. drawing 1 - drawing 4 -- setting -- A -- the odontotherapy of varieties -- an appliance -- It is constituted by the grasping section 5 whose dentist and dental assistant have all in a hand, and the therapy section 6 which treats by attaching in this grasping section 5. The connection member 7 which connects the source of power and a mechanical component (all are drawing abbreviations) with various kinds of devices built in this is tied to the above mentioned grasping section 5. And since the grasping section 5 has some which are formed in thermal resistance or chemical resistance with a scarce ingredient, this grasping section 5 cannot carry out perfect disinfection with an autoclave etc. like the therapy section 6 which can be detached and attached to this.

[0014]

This grasping section 5 chooses instrument covering 1 like drawing 5 or drawing 6 according to that configuration. Like drawing 1 and drawing 2 then, when a tip side is larger than the base of the therapy section 6 If remove and place the therapy section 6 and insert the grasping section 5 into the instrument covering 1, it stops when the tip hits to the bottom 2 of the instrument covering 1, and the therapy section 6 is put from the stoma 3 of the instrument covering 1 and installation to the grasping section 5 is performed Even if a stoma 3 is expanded by the therapy section 5, in order to ensure the seal operation which sticks with this and blocks between the therapy sections 6 in airtight, While the grasping section 5 removes the therapy section 6 and it carries out full disinfection with sterilizers, such as an autoclave, after it performs the therapy by the therapy section 6 in this condition and a therapy ends since it is completely isolated from a contamination environment with the instrument covering 1 As a result of removing the instrument covering 1 from the grasping section 5, throwing it away and using the instrument covering 1 and the therapy section 6 for the next therapy, even if it did not disinfect the grasping section 5, contamination by bacteria or the virus was not accepted.

[finishing / disinfection]

[0015]

In Implement A moreover, a therapy -- an appliance -- since there is a thing of the shape of a taper to which a base side becomes thick gradually rather than a tip as the therapy section 6 shows an implement 5 to drawing 3 and drawing 4 -- such a therapy -- an appliance -- The grasping section 5 is held to the instrument covering 1, with the therapy implement 6 attached, without removing and placing the therapy implement 6 like said example, and holding the grasping section 5 to the instrument covering 1. It is what can adopt the approach of making the therapy section 6 projecting from the instrument covering 1, making the stoma 3 of the bottom 2 of covering 1 expanding. In order to stick a stoma 3 to the therapy section 6 and to ensure the seal operation between this also in this case, the function of the instrument covering 1 to isolate the grasping section 5 from

a contamination environment also in this case was achieved completely.

[0016]

In addition, since hold of the grasping section 5 is made easy, the instrument covering 1 is formed in oversized rather than the grasping section 5 and the instrument A for a therapy cannot use it easily if it produces slack and shifts and moves between this when the grasping section 5 is held. If the surplus part described above after having formed and placed so that instrument covering 1 might be made as for the surplus section to the backside [the grasping section 5], and holding the grasping section 5 to the instrument covering 1 is pulled in order to form a converging section 8 in the backside [the grasping section 5] of extension of an ingredient sheet and to stop the instrument covering 1 simply to the grasping section 5, it was lost that the instrument covering 1 shifts and moves.

[0017]

[Effect of the Device]

Disposable instrument covering for hospital infection prevention which relates to this design as above-mentioned. If it treats by isolating with covering the grasping section which cannot carry out full disinfection of the instrument for a therapy from bacteria and the contamination environment of a virus, covering polluted when finishing the therapy is removed and thrown away and the next therapy is performed using new covering of finishing [disinfection]. Since the grasping section of an instrument etc. is polluted by neither bacteria nor the virus, the sick hospital infection which results from this is prevented completely. the now when the intractable disease acquired immunodeficiency syndrome which does not have a cure besides infectivity being very strong and preventing infection, B mold, and hepatitis C have been a problem -- feeling easy -- a therapy -- it can carry out -- moreover -- a therapy -- an appliance -- the exceptional effectiveness of imposing time and effort and it becoming unnecessary to disinfect an implement is done so.

[Translation done.]

PRIOR ART

[Description of the Prior Art]

the therapy which dentist and a dental assistant use in an odontotherapy conventionally -- an appliance -- the connection member is connected, inside is equipped with various kinds of devices, and since the grasping section is formed in thermal resistance or chemical resistance with a scarce ingredient and a thing also has it, the grasping section of an implement etc. cannot carry out perfect disinfection with sterilizers, such as an autoclave.

[0003]

Therefore, although the grasping section of the instrument for a therapy etc. will wipe with the gauze into which the disinfectant was infiltrated and will be disinfected if one patient's therapy finishes. In such disinfection, bacteria and a virus survive, and since it may transfer to the patient who treats next, there is a serious trouble of being infected with the intractable disease acquired immunodeficiency syndrome of the present age in which infectivity is strong and a cure only has preventing infection, B mold, hepatitis C,

etc. in a hospital.
[0004]

[Translation done.]

EFFECT OF THE INVENTION

[Effect of the Device]

Disposable instrument covering for hospital infection prevention which relates to this design as above-mentioned. If it treats by isolating with covering the grasping section which cannot carry out full disinfection of the instrument for a therapy from bacteria and the contamination environment of a virus, covering polluted when finishing the therapy is removed and thrown away and the next therapy is performed using new covering of finishing [disinfection]. Since the grasping section of an instrument etc. is polluted by neither bacteria nor the virus, the sick hospital infection which results from this is prevented completely. The now when the intractable disease acquired immunodeficiency syndrome which does not have a cure besides infectivity being very strong and preventing infection, B mold, and hepatitis C have been a problem -- feeling easy -- a therapy -- it can carry out -- moreover -- a therapy -- an appliance -- the exceptional effectiveness of imposing time and effort and it becoming unnecessary to disinfect an implement is done so.

[Translation done.]

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Device]

the technical problem which this design tends to solve -- a therapy -- an appliance -- since the grasping section of an implement etc. is put on a contamination environment, it is polluted by bacteria and the virus and the fearful dangers of carrying out a hospital infection sick, such as an acquired immunodeficiency syndrome and hepatitis, are high points as disinfection is imperfect.

[0005]

[Translation done.]

OPERATION

[Function]

Disposable instrument covering for hospital infection prevention of a configuration of having described above. The thing which the connection member is connected and builds

various kinds of devices in inside with the thin synthetic-resin sheet which whose cost of materials is cheap and can perform perfect cutoff of bacteria or a virus and by which the grasping section is formed in thermal resistance or chemical resistance with a scarce ingredient A certain sake, the odontotherapy which cannot carry out full disinfection with sterilizers, such as an autoclave, -- an appliance -- the bag with which the grasping section of an implement etc. is held is formed, a stoma is opened in the bottom of this bag, and instrument covering is manufactured.

[0007]

and the required number after disinfecting this instrument covering completely with a gamma ray sterilizer etc. -- a seal package -- carrying out -- keeping it -- placing -- dentist and a dental assistant -- a therapy -- an appliance, when treating with an implement If one of the above mentioned coverings is taken out, the grasping section which removed the therapy section into it is held and said grasping section is equipped with the therapy section from the stoma of a bottom, while the grasping section will be covered with covering in an outside In order to perform the seal operation whose stoma which let the therapy section pass sticks to the therapy section, and blocks between this in airtight, Even if the grasping section of an instrument is put on the contamination environment by bacteria or the virus in the case of a therapy, in order for instrument covering to intercept bacteria and a virus and not to make it adhere to the grasping section, the contamination by the bacteria or virus of the grasping section does not take place.

[0008]

Therefore, if a therapy ends, remove the therapy section from the grasping section and disinfect completely with sterilizers, such as an autoclave, and will remove and throw away instrument covering from the grasping section, and it will exchange for a new thing [finishing / disinfection]. if the therapy section [finishing / full disinfection] is attached in the grasping section from the stoma of a bottom and it is made to perform the next therapy -- a therapy -- an appliance, since transition of bacteria or a virus does not take place through an implement What carries out infection pathopoiesis in a hospital at the intractable disease of the present age, such as an acquired immunodeficiency syndrome to which infectivity is strong and a cure only has preventing infection, and B mold, hepatitis C, is prevented completely.

[0009]

In addition, installation of instrument covering to a therapy instrument It is not necessary to carry out in the condition of having seceded from the therapy implement, and to necessarily attach a therapy implement after installation of instrument covering, and rather than the tip, if a therapy implement is the thing of the shape of a taper to which a base becomes thick It is the thing in which the therapy section will expand a stoma, and will expose it to from covering, and the grasping section will be made settled into covering if the therapy section is attached and put on the grasping section, the tip of the therapy section is doubled with a stoma and the grasping section is inserted in instrument covering. In order to perform the seal operation which sticks a stoma to the therapy section and blocks between this in airtight also in this case, the function to isolate the grasping section from a contamination environment also in this case is said thing performed similarly.

[0010]

[Translation done.]

EXAMPLE

[Example]

The example of disposable instrument covering for hospital infection prevention concerning this design is explained based on a drawing below.

[0011]

Drawing 1 is the front view showing an example of use of disposable instrument covering for hospital infection prevention concerning this design. Drawing 2 is the front view showing other examples of use same as the above. Drawing 3 is the front view showing the example of further others of use same as the above. Drawing 4 is the front view showing other examples of use same as the above. Drawing 5 is the front view showing an example of instrument covering. Drawing 6 is the front view showing other examples same as the above.

[0012]

In drawing 5 and drawing 6, 1 is instrument covering, the cost of materials is cheap, perfect cutoff of bacteria or a virus can be performed and there is no sense of incongruity by wearing. With polyethylene harmless to the body, vinyl, and other thin synthetic-resin sheets Manufacture bags in the magnitude in which the grasping section of various kinds of odontotherapy instruments which carry out a postscript is held, and it forms in a flat bottom as shows the bottom 2 to drawing 5, and the crest mold bottom shown in drawing 6. It has been made to make opening easy to shorten and to open, as it is shown in drawing 6 whether it cuts deeply as the stoma 3 to which the therapy section of the instrument for a therapy is exposed is formed in the center section of a bottom 2 and an opening side is shown in drawing 5, and 4 is prepared. And after disinfecting completely with a well-known gamma ray sterilizer etc. and considering as an aseptic condition, it is kept and this instrument covering is placed so that the seal package of every [a required number] may be carried out and it may not be polluted bacteria etc.

[0013]

It is what shows four examples of an implement. drawing 1 - drawing 4 -- setting -- A -- the odontotherapy of varieties -- an appliance -- It is constituted by the grasping section 5 whose dentist and dental assistant have all in a hand, and the therapy section 6 which treats by attaching in this grasping section 5. The connection member 7 which connects the source of power and a mechanical component (all are drawing abbreviations) with various kinds of devices built in this is tied to the above mentioned grasping section 5. And since the grasping section 5 has some which are formed in thermal resistance or chemical resistance with a scarce ingredient, this grasping section 5 cannot carry out perfect disinfection with an autoclave etc. like the therapy section 6 which can be detached and attached to this.

[0014]

This grasping section 5 chooses instrument covering 1 like drawing 5 or drawing 6 according to that configuration. Like drawing 1 and drawing 2 then, when a tip side is larger than the base of the therapy section 6 If remove and place the therapy section 6 and insert the grasping section 5 into the instrument covering 1, it stops when the tip hits to

the bottom 2 of the instrument covering 1, and the therapy section 6 is put from the stoma 3 of the instrument covering 1 and installation to the grasping section 5 is performed. Even if a stoma 3 is expanded by the therapy section 5, in order to ensure the seal operation which sticks with this and blocks between the therapy sections 6 in airtight, While the grasping section 5 removes the therapy section 6 and it carries out full disinfection with sterilizers, such as an autoclave, after it performs the therapy by the therapy section 6 in this condition and a therapy ends since it is completely isolated from a contamination environment with the instrument covering 1. As a result of removing the instrument covering 1 from the grasping section 5, throwing it away and using the instrument covering 1 and the therapy section 6 for the next therapy, even if it did not disinfect the grasping section 5, contamination by bacteria or the virus was not accepted. [finishing / disinfection]

[0015]

In Implement A moreover, a therapy -- an appliance -- since there is a thing of the shape of a taper to which a base side becomes thick gradually rather than a tip as the therapy section 6 shows an implement 5 to drawing 3 and drawing 4 -- such a therapy -- an appliance -- The grasping section 5 is held to the instrument covering 1, with the therapy implement 6 attached, without removing and placing the therapy implement 6 like said example, and holding the grasping section 5 to the instrument covering 1. It is what can adopt the approach of making the therapy section 6 projecting from the instrument covering 1, making the stoma 3 of the bottom 2 of covering 1 expanding. In order to stick a stoma 3 to the therapy section 6 and to ensure the seal operation between this also in this case, the function of the instrument covering 1 to isolate the grasping section 5 from a contamination environment also in this case was achieved completely.

[0016]

In addition, since hold of the grasping section 5 is made easy, the instrument covering 1 is formed in oversized rather than the grasping section 5 and the instrument A for a therapy cannot use it easily if it produces slack and shifts and moves between this when the grasping section 5 is held. If the surplus part described above after having formed and placed so that instrument covering 1 might be made as for the surplus section to the backside [the grasping section 5], and holding the grasping section 5 to the instrument covering 1 is pulled. In order to form a converging section 8 in the backside [the grasping section 5] of extension of an ingredient sheet and to stop the instrument covering 1 simply to the grasping section 5, it was lost that the instrument covering 1 shifts and moves.

[0017]

[Translation done.]

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the front view showing an example of use of disposable instrument covering for hospital infection prevention concerning this design.

[Drawing 2] It is the front view showing other examples of use same as the above.

[Drawing 3] It is the front view showing the example of further others of use same as the above.

[Drawing 4] It is the front view showing other examples of use same as the above.

[Drawing 5] It is the front view showing an example of instrument covering.

[Drawing 6] It is the front view showing other examples same as the above.

[Description of Notations]

1 Instrument Covering

2 Bottom

3 Stoma

A The instrument for a therapy

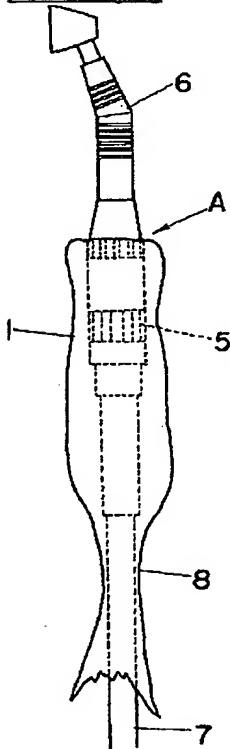
5 Grasping Section of Instrument

6 Therapy Section of Instrument

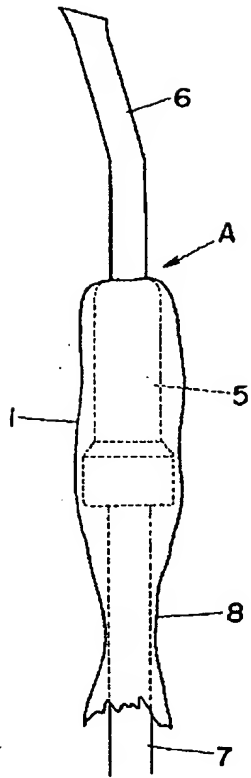
[Translation done.]

DRAWINGS

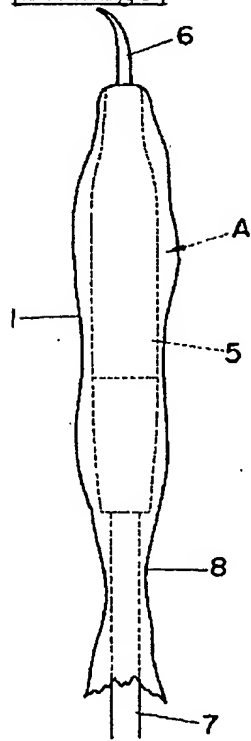
[Drawing 1]



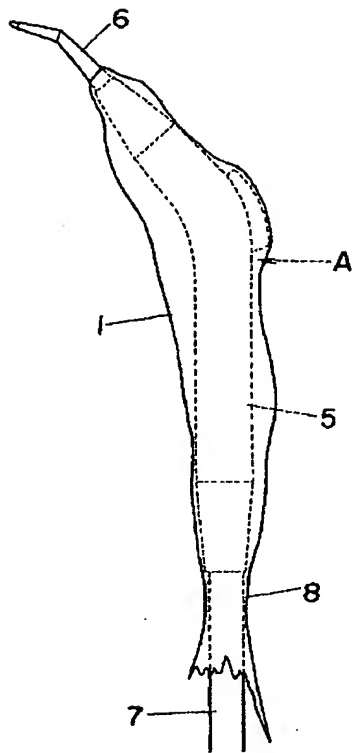
[Drawing 2]



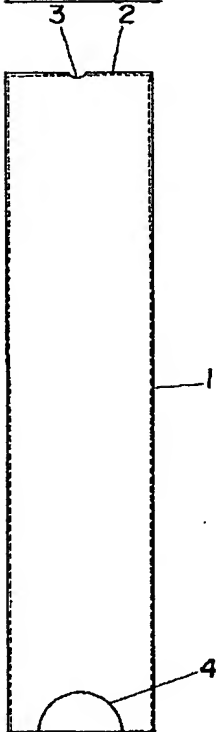
[Drawing 3]



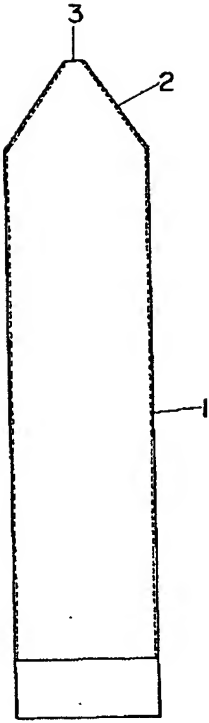
[Drawing 4]



[Drawing 5]



[Drawing 6]



[Translation done.]

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☒ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.